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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/664,993	09/18/2000	Gangfeng Cai	2039.006100	4102	
7	7590 06/13/2002				
Williams Morgan & Amerson PC			EXAMINER		
7676 Hillmont Suite 250 Houston, TX 77040			NOLAN, SANDRA M		
			ART UNIT	PAPER NUMBER	
			1772	15	
			DATE MAILED: 06/13/2002	DATE MAILED: 06/13/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

7 V				ale				
		Application N .	Applicant(s)					
		09/664,993	CAI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Sandra M. Nolan	1772					
	The MAILING DATE of this c mmunication appears on the cover sheet with the c rresp ndence address							
A SHOTHE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1.5 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply repriod for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	mely filed ys will be considered timel n the mailing date of this c ED (35 U.S.C. § 133).	y. ommunication.				
eame Status	d patent term adjustment. See 37 CFR 1.704(b).							
1)[Responsive to communication(s) filed on 21 M	May 2002 .						
2a)□		is action is non-final.						
3)	Since this application is in condition for allowed closed in accordance with the practice under	ance except for formal matters, p		ne merits is				
Dispositi	on of Claims	•						
4)🛛	Claim(s) 1-17 is/are pending in the application	1.						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-17</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
,	Claim(s) are subject to restriction and/o	r election requirement.						
Applicati	on Papers							
•	The specification is objected to by the Examine							
10) 🔲 -	The drawing(s) filed on is/are: a)☐ accep							
. —	Applicant may not request that any objection to the							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
,	The oath or declaration is objected to by the Ex	aminer.						
•	nder 35 U.S.C. §§ 119 and 120) (D (O					
•	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents	• •		04				
* 5	3. Copies of the certified copies of the prior application from the International Buree the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		Stage				
	cknowledgment is made of a claim for domesti	·		I application).				
, —) ☐ The translation of the foreign language pro	-		,				
	Acknowledgment is made of a claim for domesti							
Attachmen	t(s)							
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	ry (PTO-413) Paper No Patent Application (PT					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submissions filed on May 21, 2002—both the RCE request (Paper No. 13) and the preliminary amendment (Paper No. 14) have been entered.

Claims

2. Claims 1-17 are pending.

Rejections Maintained

- The 35 USC 103 rejection of claims 1-12 and 16-17, as originally presented in section 7 of the November 7, 2001 Office Action (Paper No. 8), is maintained for reasons of record.
- 4. The 35 USC 103 rejection of claims 13-15, as originally presented in section 8 of Paper No. 8, is maintained for reasons of record.

New Rejections

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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6. Claims 1-17 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

This is a new matter rejection. The expressions "providing substantially all of the interior surface of the rigid container" and "substantially coextensive" are not supported by the original specification.

Support for these phrases in the original application should be pointed out or they should be deleted from the claims.

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- (i), 8. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

What does "substantially" mean? That is how much of the inner surface need not be provided by the oxygen scavenging layer for it to still be "substantially all of the interior surface"? How coextensive is "substantially coextensive'?

Please clarify the claims.

Response to Arguments

9. Applicant's arguments filed in Paper No. 14 have been fully considered but they are not persuasive.

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The arguments in Paper No. 14 will be responded to in the order in which they were presented.

On page 2, applicants argue that one would not be motivated to apply the polymer coating of Nordstrom to the surface of an oxygen scavenging ribbon or to incorporate a coating polymer into the interior of an oxygen scavenging ribbon.

However, the examiner has not suggested that a coating of oxygen scavenger be applied to the surface of a ribbon. Rather, she has suggested, and the art--as combined--suggests, that the inner layer of Ching's ribbon be used as the inner layer of the claimed container. The utility of the Nordstrom polymers as interior coatings is consistent with Ching's use of similar polymers as the innermost layer in its (Ching's) ribbon. See col. 4, lines 35+ of Ching, where it states that the oxygen scavenger may be coated onto a polymer layer.

On page 3, applicants argue that their claims, as presently amended, call for the use of the oxygen scavenger to provide substantially all of the interior surface of the container and to be substantially coextensive with the inner and outer layers.

However, the use of "substantially" in the new limitations renders them indefinite. See the second 35 USC 112 rejection above.

The interior layers of Ching's articles are deemed to be substantially coextensive with the outer layers around them. For the interior layer to be less extensive than the outer layers, the outer layers would have to be thicker then the interior layer. However, in Figure 1, Ching shows that thickness of the outer layers about the same as that of the

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interior layer. Also, Ching does not require that the outer layers meet any particular thickness limitation in order to enclose the interior layer.

On page 3, applicants argue that Nordstrom does not teach or suggest the multilayer structure that they claim.

However, Ching suggests multilayer oxygen scavenging systems and Nordstrom teaches the type of oxygen scavenging polymers that applicants use in their inner layer.

In the paragraph bridging pages 3 and 4, applicants refer to the Katsumoto teachings, but do not present specific arguments against their use.

Accordingly, the examiner will comment on Katsumoto here. Suffice it to say that the use of Katsumoto to show photoinitiators is still deemed proper.

Conclusion

Any inquiry concerning this communication should be directed to Sandra M. Nolan, whose telephone number is 703/308-9545. The Examiner can normally be reached on Monday through Thursday, from 6:30 am to 4:00 pm, Eastern Time.

If you cannot reach Ms. Nolan by telephone, her supervisor, Harold Pyon, can be reached at 703/308-4251. The general fax number for the art unit is 703/305-5436. The fax number for after final communications is 703/872-9310. The receptionist answers 703/308-0661.

S. M. Nolan

Patent Examiner

5 N. Nola

Technology Center 1700

SMN/smn 09664993(15) June 8, 2002